

## A B S T R A C T

A method of controlling transmission power in a mobile radio system in which a power control algorithm controls transmission power as a function of a transmission quality target value, wherein:

- a target value variation is applied to compensate the effects of a compressed transmission mode in which transmission is interrupted during transmission gaps and the bit rate is increased correspondingly to compensate the transmission gaps,

- said target value variation includes a first component for compensating the effects of said increase in bit rate and a second component for compensating other effects of transmission gaps,

- a corresponding anticipated variation of the transmission power is applied, and

- said anticipated variation of the transmission power corresponds to an approximate value of said target value variation obtained by a process of approximation from said second component.